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Product Name :

Human Lung Model in Bell Jar

Product Code :

SLE/BL/72



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Description :

The **Human Lung Model in Bell Jar** (Product Code: SLE/BL/72) is a simple working model ofthe breathing mechanism, built as school biology lab equipment in India. Two balloons attachedto a Y-tube act as the lungs, the bell jar with its open top represents the chest cavity, and a stoutrubber sheet across the bottom acts as the diaphragm. Pull the rubber sheet down and theballoons inflate; let it go and they deflate. Made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, it serves as a direct, hands-on biology experiment kit for studentslearning how breathing works, and is used from middle school through to nursing and physiologycourses.

Specifications

Parameter	Detail
Type	Bell jar breathing mechanism model
Lungs	Two balloons attached to a Y-tube
Chest cavity	Bell jar with open top
Diaphragm	Stout rubber sheet
Principle shown	Pulling the diaphragm down lowers the pressure inside the chamber, so the lungs expand and take in air; releasing it lets the lungs deflate
Teaching purpose	Shows how the lungs are filled and emptied by the contraction and relaxation of the diaphragm muscle

Typical Use

This is a demonstration students can operate themselves. When the rubber diaphragm is pulled downward, the space inside the bell jar increases and the pressure there falls below atmospheric pressure, so air rushes in through the Y-tube and the balloon lungs expand — just as the lungs fill when the diaphragm contracts and flattens. When the sheet is released, it returns to its resting position and the balloons empty, modelling exhalation as the diaphragm relaxes. Asking students to describe the pressure change at each step links the biology lesson to basic gas laws from physics.

The model is a natural fit for health education programmes in schools in India that cover breathing, exercise and the effects of smoking, and for first-year nursing physiology. Pull the diaphragm gently and evenly rather than snapping it, check that the Y-tube and balloons are seated firmly so air does not leak, and store the model away from heat and sunlight so the rubber parts last longer.

Manufacturer

This breathing model is made in Ambala, Haryana, by Jain Scientific Equipments Private Limited, which trades as ScienceLab and supplies both simple demonstration apparatus and detailed anatomical models to education. Our company profile has more background.

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